



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

20350

7590

09/29/2006

TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834

EXAM	EXAMINER				
RENNER, CRAIG A					
ART UNIT	PAPER NUMBER				

2627

DATE MAILED: 09/29/2006

TITLE OF INVENTION: MAGNETORESISTIVE SENSOR WITH RANDOM CRYSTAL ORIETATION UNDERLAYER AND MAGNETIC DOMAIN CONTROL FILM CENTER ALIGNED WITH FREE LAYER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	12/29/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS.

THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS TREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW

OW TO REPLY TO THIS NOTICE:

©Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

July If the status is the same, pay the TOTAL FEE(S) DUE shown above.

3. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (SPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a equest to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing a paper as an equivalent of Part B.

All communications regarding this application must give the application number. Please direct all communications prior to issuance to all stop ISSUE FEE unless advised to the contrary.

MPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

PART B - FEE(S) TRANSMITTAL					
Complete and send this form, toge		Co P.: Al or <u>Fax</u> (5'	ommissioner for Pate D. Box 1450 exandria, Virginia 2 71)-273-2885	2313-1450	;
NSTRUCTIONS: This form should be used the propriate. All further correspondence included included the corrected below or directed of lintenance fee notifications.	for transmitting the ISS ing the Patent, advance of therwise in Block 1, by (UE FEE and PUBLICAT orders and notification of a) specifying a new corre	ION FEE (if required). Emaintenance fees will be spondence address; and/or	Blocks 1 through 5 sho mailed to the current of (b) indicating a separ-	ould be completed where correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use	Block 1 for any change of address)	· Fee	e: A certificate of mailing (s) Transmittal. This certifiers. Each additional paper e its own certificate of mai	icate cannot be used for such as an assignment	r any other accompanying
TOWNSEND AND TOWNSEND TWO EMBARCADERO CENTER EIGHTH FLOOR	R	LLP I he Sta add trai	Certificate creby certify that this Fee(stee Postal Service with suffressed to the Mail Stop smitted to the USPTO (57)	of Mailing or Transm s) Transmittal is being ficient postage for first ISSUE FEE address a 1) 273-2885, on the dat	dission deposited with the United class mail in an envelope bove, or being facsimile the indicated below.
SAN FRANCISCO, CA 94111-38	34				(Depositor's name)
:		_			(Signature) (Date)
ADVIGATIONAL TO THE PLANT OF TH	. 1	THE NAME BUTTON	Larmo	DVEY DOCKET NO.	
APPLICATION NO. FILING DATE 10/665,091 09/16/2003	<u></u>	Shuichi Kojima		RNEY DOCKET NO.	CONFIRMATION NO.
TLE OF INVENTION: MAGNETORESIST ONTROL FILM CENTER ALIGNED WITH		NDOM CRYSTAL ORIE	TATION UNDERLAYER	AND MAGNETIC D	OMAIN
APPLN. TYPE SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional NO	\$1400	\$300	\$0	\$1700	12/29/2006
EXAMINER	ART UNIT	CLASS-SUBCLASS	· .		Ü
RENNER, CRAIG A	2627	360-324120			
Change of correspondence address or indication of the Language of correspondence address (or Change of correspondence address (or Change of Correspondence address (or Change of	nange of Correspondence	or agents OR, alternation (2) the name of a sing registered attorney or	o 3 registered patent attorn vely, le firm (having as a memb agent) and the names of up omeys or agents. If no nam	era 2	
ASSIGNEE NAME AND RESIDENCE DAT PLEASE NOTE: Unless an assignee is ider recordation as set forth in 37 CFR 3.11. Con (A) NAME OF ASSIGNEE		data will appear on the p T a substitute for filing an	,		cument has been filed for
ease check the appropriate assignee category of	or categories (will not be p	rinted on the patent):	Individual 🗆 Corporati	on or other private grou	p entity Government
The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount Advance Order - # of Copies	permitted)	☐ A check is enclosed. ☐ Payment by credit ca ☐ The Director is hereb	ase first reapply any prev rd. Form PTO-2038 is atta y authorized to charge the r osit Account Number	ched.	ciency, or credit any
Change in Entity Status (from status indicated a Applicant claims SMALL ENTITY states of the Issue Fee and Publication Fee (if resterest as shown by the records of the United States)	tus. See 37 CFR 1.27.	☐ b. Applicant is no lor	ger claiming SMALL ENT	TITY status. See 37 CFI	R 1.27(g)(2).
Authorized Signature			Date		
Typed or printed name		·	Registration No.		· i
his collection of information is required by 37 happlication. Confidentiality is governed by 37 happlication. Confidentiality is governed by 37 happlication form to the ist form and/or suggestions for reducing this by its form and/or					



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,091	10/665,091 09/16/2003 Shuichi Kojima		16869G-086600US	6188
20350	7590 09/29/2006		EXAMI	NER
TOWNSEND A	ND TOWNSEND AND CR	EW, LLP	RENNER, O	CRAIG A
	ADERO CENTER	,	ART UNIT	PAPER NUMBER
EIGHTH FLOOR SAN FRANCISC	CO, CA 94111-3834		2627 DATE MAILED: 09/29/2006	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 283 day(s). If the issue fee is paid on the date that is three months after the hailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half nonths) after the mailing date of this notice, the Patent Term Adjustment will be 283 day(s).

a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that estermines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

BEST AVAILABLE COPY